



SLC440AS-ER-0890-30

- Resolution 30 mm
- Range 0,3 ... 10
- Safety type 4 in accordance with IEC 61496-1
- Integrated AS-Interface
- Protection field height 170 mm - 1770 mm
- Configurable blanking functions
- Integrated status indicator

Data

Ordering data

| | |
|-------------------------------|---------------------|
| Product type description | SLC440AS-ER-0890-30 |
| Article number (order number) | 103007489 |
| EAN (European Article Number) | 4030661449807 |
| eCl@ss number, version 12.0 | 27-27-27-04 |
| eCl@ss number, version 11.0 | 27-27-27-04 |
| eCl@ss number, version 9.0 | 27-27-27-04 |
| ETIM number, version 7.0 | EC002549 |
| ETIM number, version 6.0 | EC002549 |

Approvals - Standards

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|--------------|-------------------------|
| Certificates | TÜV cULus ASi-SaW |
|--------------|-------------------------|

General data

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|------------------------|--|
| Standards | CLC/TS 61496-2 EN 50295 EN IEC 62061 EN ISO 13849-1 EN IEC 61496-1 |
| Working principle | optoelectronic |
| Housing material | Aluminium |
| Reaction time, maximum | 13 ms |
| Gross weight | 1,630 g |

General data - Features

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| Safety functions | Yes |
| Blanking function | Yes |
| 7-segment display | Yes |
| Integral system diagnostics, status | Yes |
| Number of beams | 44 |

Safety classification

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|--|--------------------------|
| Standards | EN IEC 62061 |
| Performance Level, up to | e |
| Category | 4 |
| PFH value | 5.17×10^{-9} /h |
| Safety Integrity Level (SIL), suitable for applications in | 3 |
| Mission time | 20 Year(s) |
| Safety type in accordance with IEC 61496-1 | 4 |

Mechanical data

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|--|--------|
| Detection ability for test bodies at $v = 1.6$ m/s | 30 mm |
| Height of the protection field | 890 mm |
| Range, protection field, minimum | 0.3 m |

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|----------------------------------|--------|
| Range, protection field, maximum | 10 m |
| Wave length of the laserdiode | 880 nm |

Mechanical data - Connection technique

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|----------------------------------|----------------------------|
| Termination | Connector |
| Terminal connector, Recipient | Connector plug M12, 5-pole |
| Terminal, Connector, Transmitter | Connector plug M12, 4-pole |

Mechanical data - Dimensions

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|-----------------------|----------|
| Height of transmitter | 1,003 mm |
| Height of Receiver | 1,023 mm |
| Length of sensor | 33 mm |
| Width of sensor | 27.8 mm |

Ambient conditions

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|-----------------------------------|---------------------------------|
| Degree of protection | IP67 |
| Ambient temperature | -10 ... +50 °C |
| Storage and transport temperature | -25 ... +70 °C |
| Resistance to vibrations | 10 ... 55 Hz, amplitude 0.35 mm |
| Restistance to shock | 10 g / 16 ms |
| Protection class | III |

Ambient conditions - Insulation values

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|---|--------|
| Rated insulation voltage U_i | 32 VDC |
| Rated impulse withstand voltage U_{imp} | 0.8 kV |
| Overvoltage category | III |
| Degree of pollution | 2 |

Electrical data - AS Interface

Rated operating voltage 18 ... 31.6 VDC (Protection against polarity reversal)

AS-i Current consumption, maximum 50 mA

Electrical data - AS-Interface specification

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|----------------------------------|---|
| AS-i Specification | Safety-Slave |
| AS-i Version | V 3.0 |
| AS-i Profile | S-0.B.F.E |
| AS-i Input, Channel 1 | Data bits DI 0 / DI 1 = dynamic code transmission |
| AS-i Input, Channel 2 | Data bits DI 2 / DI 3 = dynamic code transmission |
| AS-i Outputs, DO 0 ... DO 3 | No Function |
| AS-i Parameter bits, P0 | No function |
| AS-i Parameter bits, P1 | Low beam quality |
| AS-i Parameter bits, P2 | No function |
| AS-i Parameter bits, P3 | Internal device error (FID) |
| Note (AS-i Parameter bits) | Set the parameter outputs to "1111" (0xF) FID: periphery error |
| AS-i Input module address | 0 |
| Note (AS-i Input module address) | Preset to address 0, can be changed through AS-interface bus master or hand-held programming device |

Electrical data - Auxiliary voltage

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|--------------------------------|---|
| Operating voltage | 24 VDC -15 % / +10 % (stabilised PELV power supply) |
| Power consumption, Receiver | 150 mA |
| Power consumption, Transmitter | 75 mA |
| Rated operating voltage | 24 VDC |

Status indication

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|---|---|
| Note (LED switching conditions display) | Green/red LED (AS-i duo LED): Supply voltage / communication error / slave address = 0 / periphery error detected |
|---|---|

Note

Pictures

Product picture (catalogue individual photo)



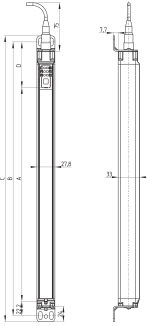
ID: kslc4f94

| 203.3 kB | .jpg | 352.778 x 322.439 mm - 1000 x 914 px - 72 dpi

| 13.9 kB | .png | 74.083 x 67.733 mm - 210 x 192 px - 72 dpi

| 40.1 kB | .jpg | 123.472 x 112.889 mm - 350 x 320 px - 72 dpi

Dimensional drawing basic component



ID: 5slc4g26

| 5.1 kB | .png | 74.083 x 158.75 mm - 210 x 450 px - 72 dpi

| 218.6 kB | .jpg | 352.778 x 757.061 mm - 1000 x 2146 px - 72 dpi

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The details and data referred to have been carefully checked. Images may diverge from original. Further technical data can be found in the manual. Technical amendments and errors possible.

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